

## Douglas County

8/31/2020

### Background Statistics<sup>1</sup>

Number of farms: 998

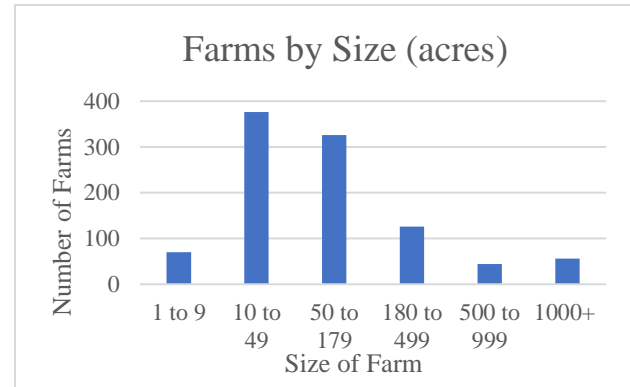
Average size: 231 acres

Land in farms: 230,364 acres

Average value of products sold per farm: \$65,999

Average net cash farm income per farm: \$18,599

1: Data from USDA 2017 Census of Agriculture



## Estimated Economic Contribution of Agriculture and Agriculture Related Sectors to the Douglas County Economy

### Methodology

The estimated economic contribution of agriculture and agriculture related sectors was computed using the most recent IMPLAN data available (2018) adjusted for 2020. The IMPLAN modeling system was used to calculate the results of this analysis. The IMPLAN model was constructed so that double counting was avoided. For this report, 35 of the 71 agriculture and agriculture related sectors in Kansas were identified and analyzed to determine their overall contribution to the Douglas County economy.

### Results

These 35 sectors have a total direct output of approximately **\$388.7 million** and account for **1,925 jobs** in Douglas County. Running the model for all 35 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Douglas County Economy					
Contribution Type	Employment	% Employment	Total Value Added	% of Gross Regional Product	Output
Direct Effect	1,925	3%	\$133,200,000	3%	\$388,700,000
Indirect Effect	384	1%	\$30,300,000	1%	\$66,600,000
Induced Effect	361	0.5%	\$26,500,000	0.5%	\$46,300,000
<b>Total Effect</b>	<b>2,670</b>	<b>4%</b>	<b>\$189,900,000</b>	<b>4%</b>	<b>\$501,600,000</b>

**NOTE:** Individual effects may not equal the total effect due to rounding.

As shown in the above table, agriculture, food, and food processing sectors support a total of **2,670 jobs**, or **4%** of the entire workforce in the county. The total final sales of all products in these sectors is approximately **\$501.6 million**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of Gross Regional Product (GRP). Total value added by the 35 agriculture, food, and food processing sectors is approximately **\$189.9 million**, or **4%** of the GRP.

## Top Ten Sectors by Employment

Out of the agriculture and agriculture related sectors, beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming is the top employer with **461 jobs**. This table also illustrates the top ten sectors by total employment, including direct, indirect, and induced effects in Douglas County.

Sector	Total Employment
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	461
Landscape and horticultural services	394
All other crop farming	152
Veterinary services	141
Grain farming	125
Bread and bakery product, except frozen, manufacturing	99
Other real estate	87
Frozen cakes and other pastries manufacturing	79
Cookie and cracker manufacturing	78
Dehydrated food products manufacturing	67

## Top Ten Sectors by Output

This table shows how much revenue is generated in other sectors by having a strong agriculture industry, including direct, indirect, and induced effects. The dog and cat food manufacturing sector is the top contributor, with approximately **\$79.6 million** to the Douglas County economy.

Sector	Total Output
Dog and cat food manufacturing	\$79,600,000
Tobacco product manufacturing	\$74,900,000
Dehydrated food products manufacturing	\$32,300,000
Cookie and cracker manufacturing	\$30,800,000
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$28,400,000
Oilseed farming	\$24,700,000
Landscape and horticultural services	\$23,800,000
Grain farming	\$19,600,000
Other real estate	\$16,400,000
Veterinary services	\$14,000,000

## All Direct Sectors

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Douglas County economy. IMPLAN sectors are assigned based on North American Industry Classification System (NAICS) codes. Generally, this analysis includes three categories; production, manufacturing/processing, and services. Note that this analysis does not include wholesale or retail sales of final products, or ethanol production.

Sector	Total Output	Total Employment
Dog and cat food manufacturing	\$79,634,431.86	55.63
Tobacco product manufacturing	\$74,899,775.71	29.54
Dehydrated food products manufacturing	\$32,268,142.85	67.02
Cookie and cracker manufacturing	\$30,764,456.42	77.58
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$28,356,162.03	461.34
Oilseed farming	\$24,656,113.88	50.06
Landscape and horticultural services	\$23,774,676.70	393.55
Grain farming	\$19,588,053.15	124.97
Veterinary services	\$13,984,048.07	140.63
Bread and bakery product, except frozen, manufacturing	\$13,812,332.90	98.63
Frozen specialties manufacturing	\$12,684,118.70	29.70
Frozen cakes and other pastries manufacturing	\$6,962,138.80	79.12
Other snack food manufacturing	\$4,476,642.23	8.10
Roasted nuts and peanut butter manufacturing	\$3,424,257.60	7.99
Other animal food manufacturing	\$3,230,565.15	3.02
All other food manufacturing	\$3,102,035.85	7.06
All other crop farming	\$2,755,727.24	152.48
Support activities for agriculture and forestry	\$2,283,763.36	60.31
Greenhouse, nursery, and floriculture production	\$1,912,323.48	18.41
Animal production, except cattle and poultry and eggs	\$1,298,381.91	17.63
Dairy cattle and milk production	\$1,162,153.98	3.97
Commercial logging	\$1,017,799.69	10.27
Forestry, forest products, and timber tract production	\$748,503.67	7.72
Poultry and egg production	\$706,881.04	1.46
Vegetable and melon farming	\$528,408.53	5.31
Fruit farming	\$263,784.33	2.93
Tree nut farming	\$166,863.52	4.48
Animal, except poultry, slaughtering	\$95,578.84	0.14
Meat processed from carcasses	\$71,501.96	0.14
Rendering and meat byproduct processing	\$49,452.12	0.14
Commercial hunting and trapping	\$12,030.99	5.84

The following terms are used throughout the results shown in this report:

- **Direct effect:** the contribution from agricultural and food products
- **Indirect effect:** the contribution from farms and agricultural businesses purchasing inputs from supporting industries within the state
- **Induced effect:** the contribution from employees of farms, agricultural businesses, and supporting industries spending their wages on goods and services within the state
- **Value added** = labor income + indirect business taxes + other property type income
- **Gross Regional Product** = final demand of households + government expenditures + capital + exports – imports – institutional sales
- **Output** = intermediate inputs + value added
- **Employment:** full-time/part-time annual average i.e., 1 job lasting 12 months = 2 jobs lasting 6 months each = 3 jobs lasting 4 months each. A job is neither full-time nor part-time.
- Due to confidentiality policies that exist within several agencies from which IMPLAN collects their data, some sectors in some regions may not have all data available.

For more information, contact the Division of Agricultural Marketing, Advocacy and Outreach Agency Economist

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